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| APPLICATION NO.     | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.  | CONFIRMATION NO. |
|---------------------|-------------|----------------------|----------------------|------------------|
| 10/026,796          | 12/27/2001  | Min Yong Hwang       | P-0310               | 1387             |
| 34610               | 7590        | 09/20/2005           | EXAMINER             |                  |
| FLESHNER & KIM, LLP |             |                      | HALIYUR, VENKATESH N |                  |
| P.O. BOX 221200     |             |                      | ART UNIT             |                  |
| CHANTILLY, VA 20153 |             |                      | PAPER NUMBER         |                  |

2664

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                                      |  |  |
|------------------------------|--------------------------------------|--|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/026,796 | <b>Applicant(s)</b><br>HWANG, MIN YONG |  |
|                              | <b>Examiner</b><br>Venkatesh Haliyur | <b>Art Unit</b><br>2664                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12/27/2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-3, 6-9, 11, 14, 15 and 17-19 is/are rejected.
- 7) ☐ Claim(s) 4, 5, 10, 12, 13, 16, 20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Claims 1-20 have been examined.

#### ***Priority***

2. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. "Republic of Korea, 82586/2000", filed on 12/27/2000.

#### ***Specification***

3. The disclosure is objected to because of the following informalities: In paragraph 37, line 5, "the main processor 200" is not shown in figures 3-6. In paragraph 38, line 8, "is operating normally" should be "is in isolation". In paragraph 42, acronyms PRM, PCUI and PA in lines 7 and 8 should be defined and shown in figure 6.

Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3, 6-9,11,14,15,17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by the applicant admitted prior art in pages 1- 5 and in Fig-2 of the specification.

Regarding claim 1,9, the applicant admitted prior art disclosed an apparatus for multiplexing a specialized resource of a network peripheral, comprising; a plurality of

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specialized resources that provide services to subscriber calls contacting a network; a plurality of modules that manage a number of specialized resource groups [item 120 of Fig 2]; a main processor that manages the plurality of modules and collects state information from each of the plurality of modules; and a resource management block that restores a service to a subscriber call [110 of Fig 2], disrupted by a faulty one of the plurality of specialized resources, in accordance with the state information collected by the main processor [Fig 2, Para 11].

Regarding claim 2, the applicant admitted prior art disclosed the resource management block that includes a means for isolating the faulty one of the plurality of specialized resources; a means for collecting information about the service performed by the isolated specialized resource and information about a particular specialized resource available to replace the isolated specialized resource; a means for generating a multiplexing message, according to the collected information, and transmitting the multiplexing message to one of the plurality of modules having the particular specialized resource available; and a means for resuming the service disrupted by the faulty one of the plurality of specialized resources [Para 12 to 16].

Regarding claim 3, 11, the applicant admitted prior art disclosed the multiplexing message is generated for each subscriber call disrupted by a faulty one of the plurality of specialized resources [Para 11].

Regarding claim 6, the applicant admitted prior art disclosed state information comprises specialized resource number information, indicating the number of specialized resources supported by the corresponding module, and a specialized

resource state bit map indicating a state of each of the specialized resources supported by the corresponding module [Para 14 and 15].

Regarding claim 7, the applicant admitted prior art disclosed the state information is collected from all of the plurality of modules of the network peripheral [Para 14 and 15].

Regarding claim 8, the applicant admitted prior art disclosed resource management block [item 110 of Fig 2], which can obviously work as a virtual device implemented by software in intelligent networks.

Regarding claim 14, the applicant admitted prior art disclosed that the state information is periodically collected from all of the modules [Para 12].

Regarding claim 15, the applicant admitted prior art disclosed a method of multiplexing a resource in a network peripheral, wherein the network peripheral includes a plurality of modules and each of the plurality of modules includes a plurality of resources, comprising: detecting a fault in a resource; identifying a service performed by the resource experiencing the fault; identifying another resource that provides the service and that is available, among the plurality of modules; assigning the other resource to support the service for a subscriber call, based on an assignment scheme [Para 11-16].

Regarding claim 17,18 the applicant admitted prior art disclosed removing the module having the detected fault from further use [Para 15 and 16].

Regarding claim 19, the applicant admitted prior art disclosed a method for multiplexing a specialized resource of a network peripheral, comprising: a plurality of modules that have specialized resources [item 110 of Fig 2]; and a plurality of

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processors that control the plurality of modules, wherein the plurality of processors can replace any one of the plurality of modules experiencing a defect with any other of the plurality of modules [Para 11 and 12].

### ***Allowable Subject Matter***

5. Claims 4,5,10,12,13,16, 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art in reference here is the applicant admitted prior art in pages 1- 5 and in Fig-2 of the specification.

7. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616.

The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached @ (571)-272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

  
Ajit Patel  
Primary Examiner